COVID-19 Report

10/14/2020

Testing

of Total PCR tests to date (10/7 AM) = 10,218 (including OIH & Sherburne)

PCR tests using Self-pay/Work-pay option (CastNet) = 3,438

Regularly testing 25-50 per day (on average)

Overview

- Had significant spread caused by a lack of adherence to COVID mitigation measures

- We had 8 cases in the last 10 days

- 52 cases in the last 20 days

- 68 cases in the last 30 days

- Not all cases are symptomatic

Metrics

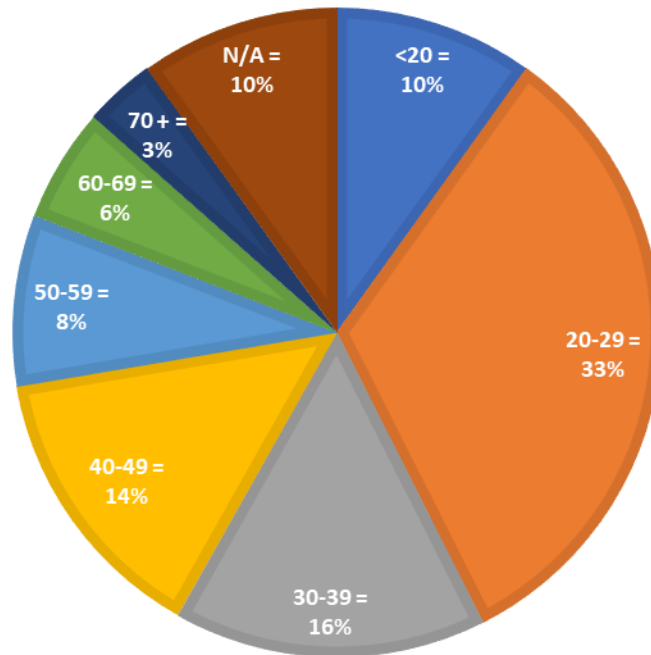| Indicator	Measure	Status
1	COVID-19 positive test rate	🟢
2	Number of individuals who died from COVID-19	🟡
3	Number of patients with COVID-19 in hospitals	🟢
4	Healthcare system readiness	🟢
5	Testing capacity	🟢
6	Contact tracing capabilities	🟢

Legend

🟢 Positive trend

🟡 In progress

🔴 Negative trend

Metrics (continued)

- **COVID-19 positive test rate** – Want to keep this number below 10%. Currently at 0% of 10/13 testing (0/65). 1.4% of 7 day average (6/418)

- **Number of individuals who died from COVID-19** – Keep below 5% of cases. Currently 1.91% (3 out of 157) of cases

- **Number of patients with COVID-19 in hospitals** – Keep below 10. Currently 0

- **Healthcare system readiness** – Qualitative response. Currently "Yes"

- **Testing capacity** – Qualitative. Ability to keep up with demand. Currently, "yes"

- **Contact tracing capabilities** – Qualitative. Ability to keep up with demand. Currently "Yes" but there is difficulty

- **Sewer Predictive Incidence** –Qualitative evaluation of a Quantitative graph. Shows a spike with 1-5 cases per day

Metrics (continued)

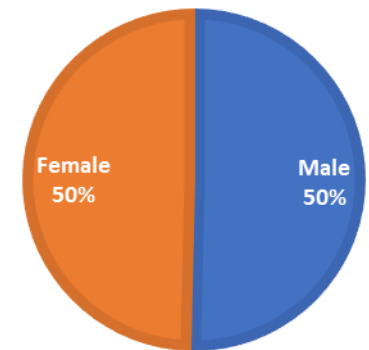**AGE BREAKDOWN**

- ■ <20 =
- ■ 20-29 =
- ■ 30-39 =
- ■ 40-49 =
- ■ 50-59 =
- ■ 60-69 =
- ■ 70 + =
- ■ N/A =

<20 = 10%
20-29 = 33%
30-39 = 16%
40-49 = 14%
50-59 = 8%
60-69 = 6%
70 + = 3%
N/A = 10%

SEX

- ■ Male
- ■ Female

Male 50%
Female 50%

Metrics (continued)

RACE BREAKDOWN

- Black, Non-Hispanic
- Black, Hispanic
- White, Non-Hispanic
- White, Hispanic
- Native/Pacific Islander
- Asian, Hispanic
- Other, Hispanic
- N/A

13% / 1% / 33% / 19% / 1% / 1% / 16% / 16%
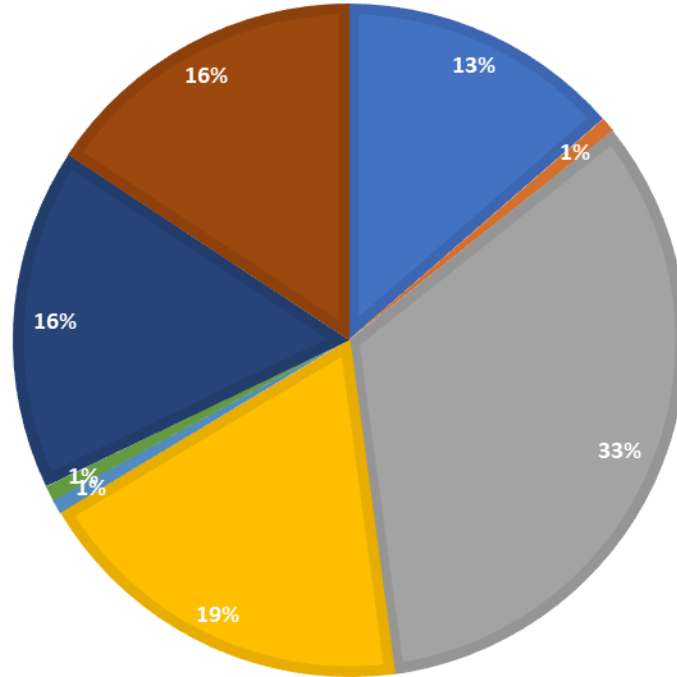
HISPANIC ORIGIN

- Non-Hispanic
- Hispanic
- n/a

47% / 38% / 15%

Metrics (continued)

POINT OF ORIGIN

Legend: N/A · NY · NC · TX · CT · CA · DE · FL · MI · MA · PA · MO · VT · UK · Nantucket

4%, 3%, 1%, 2%, 3%, 1%, 2%, 6%, 1%, 4%, 1%, 1%, 1%, 69%

Metrics (continued)

Cumulative Incidence since 3/16/2020

Metrics (continued)

Cumulative Incidence (last 30 Days)
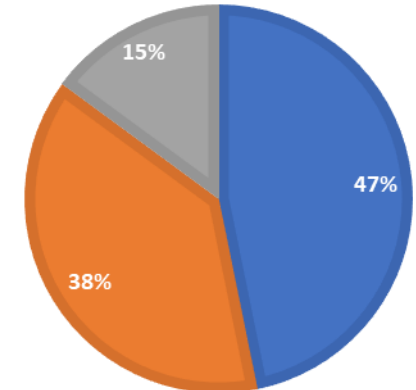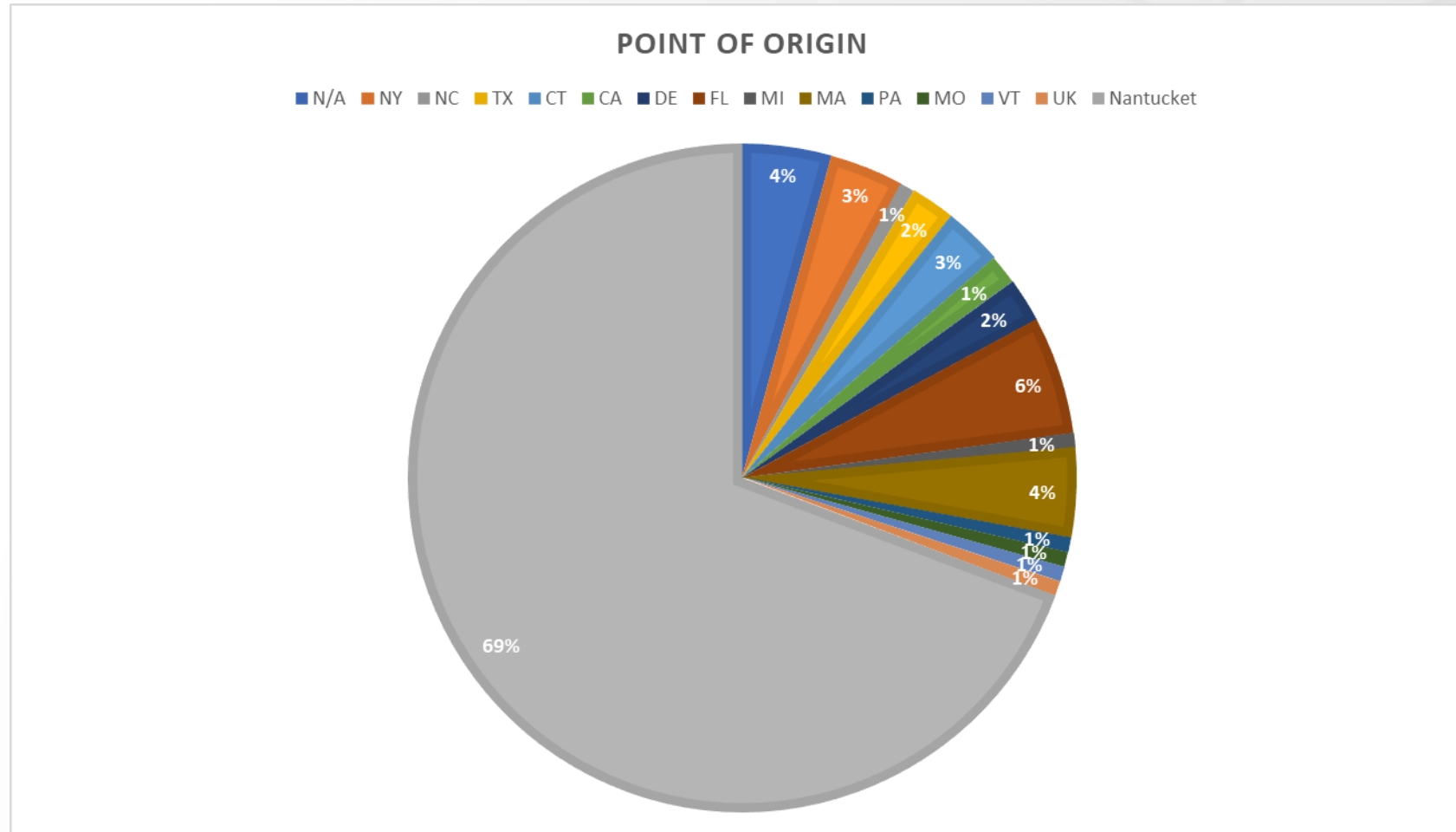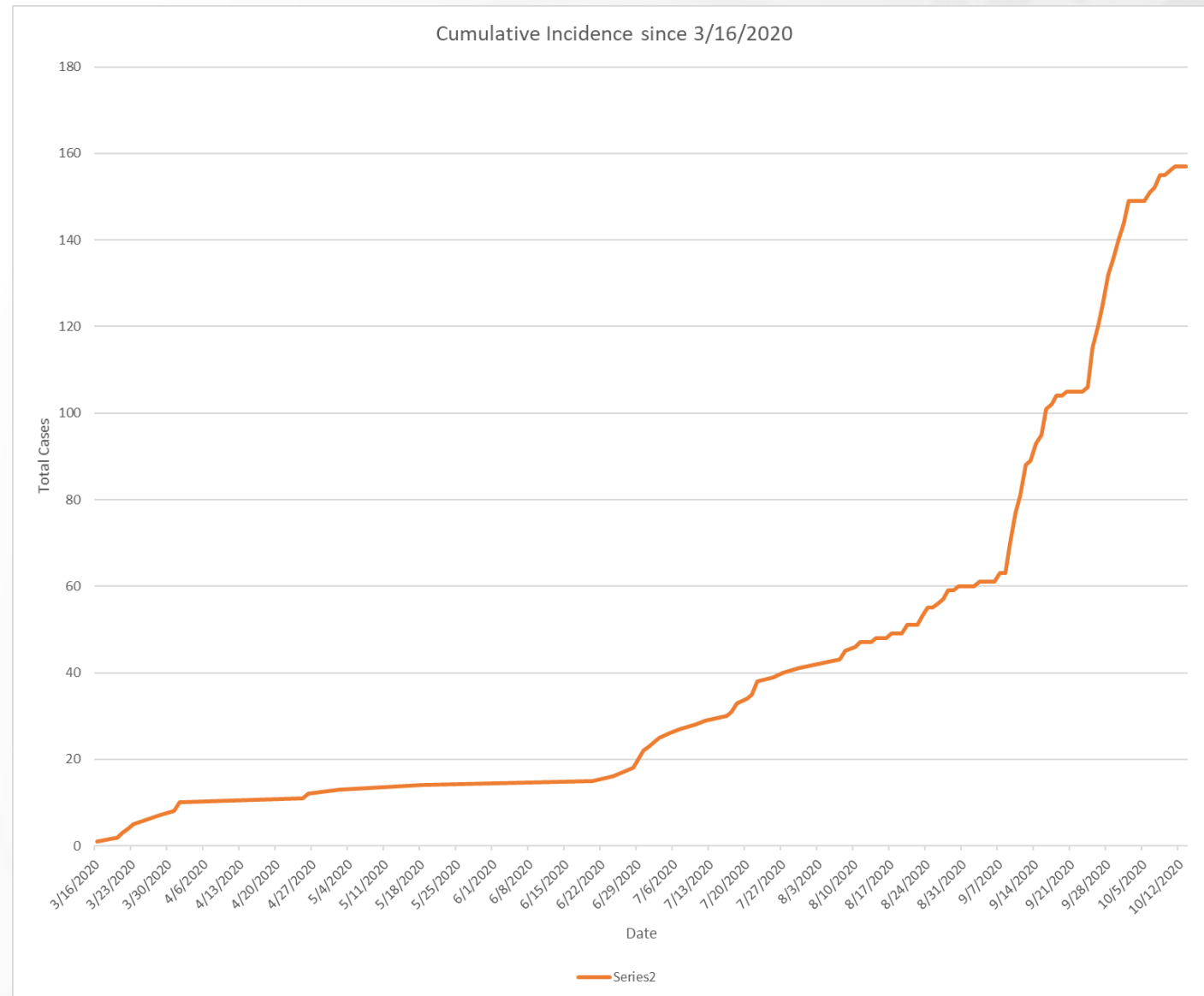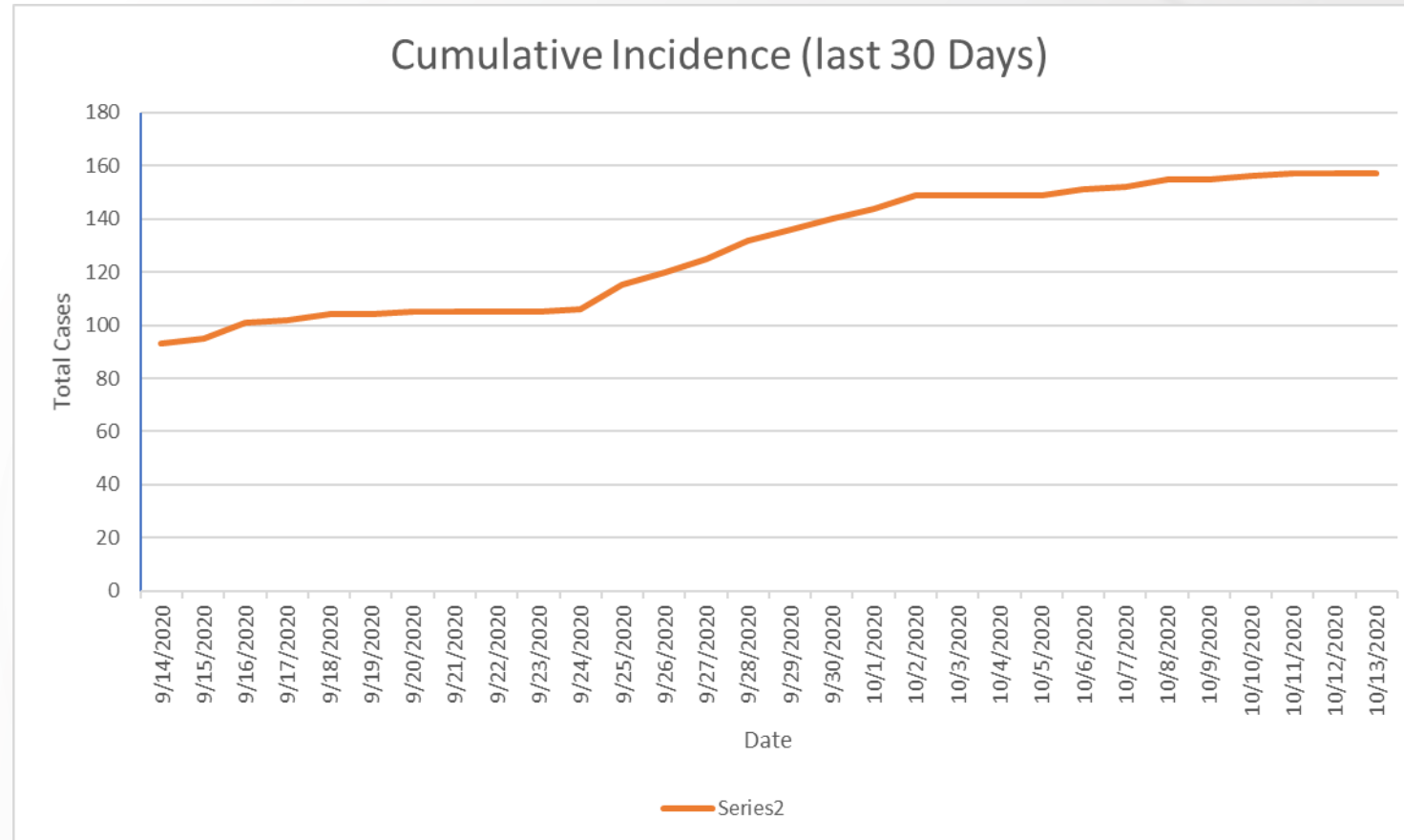
Metrics (Sewage)

Normalized virus concentration over time

Legend:
- Normalized SARS-CoV-2 virus concentration
- New cases in your county on sampling date

Y-axis (left): Normalized SARS-CoV-2 virus concentration (genome copies / L of sewage) — 0, 15,000, 30,000
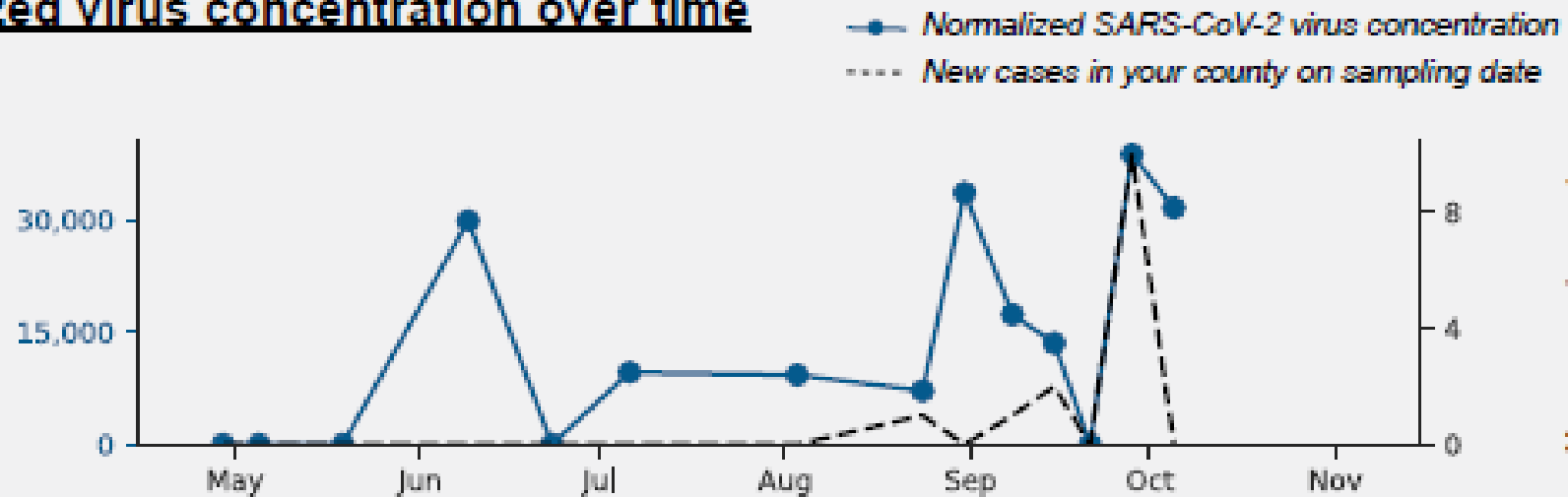
Y-axis (right): New cases in county on sampling date — 0, 4, 8

X-axis: May, Jun, Jul, Aug, Sep, Oct, Nov

Flatten The Curve

Daily incidence w/ moving avg. trendline (9/14/20 - 10/13/20)

R_0 Visualized

Daily incidence w/ moving avg. trendline (9/14/20 - 10/13/20)

R0 <1

$R_0 \sim 0.87$
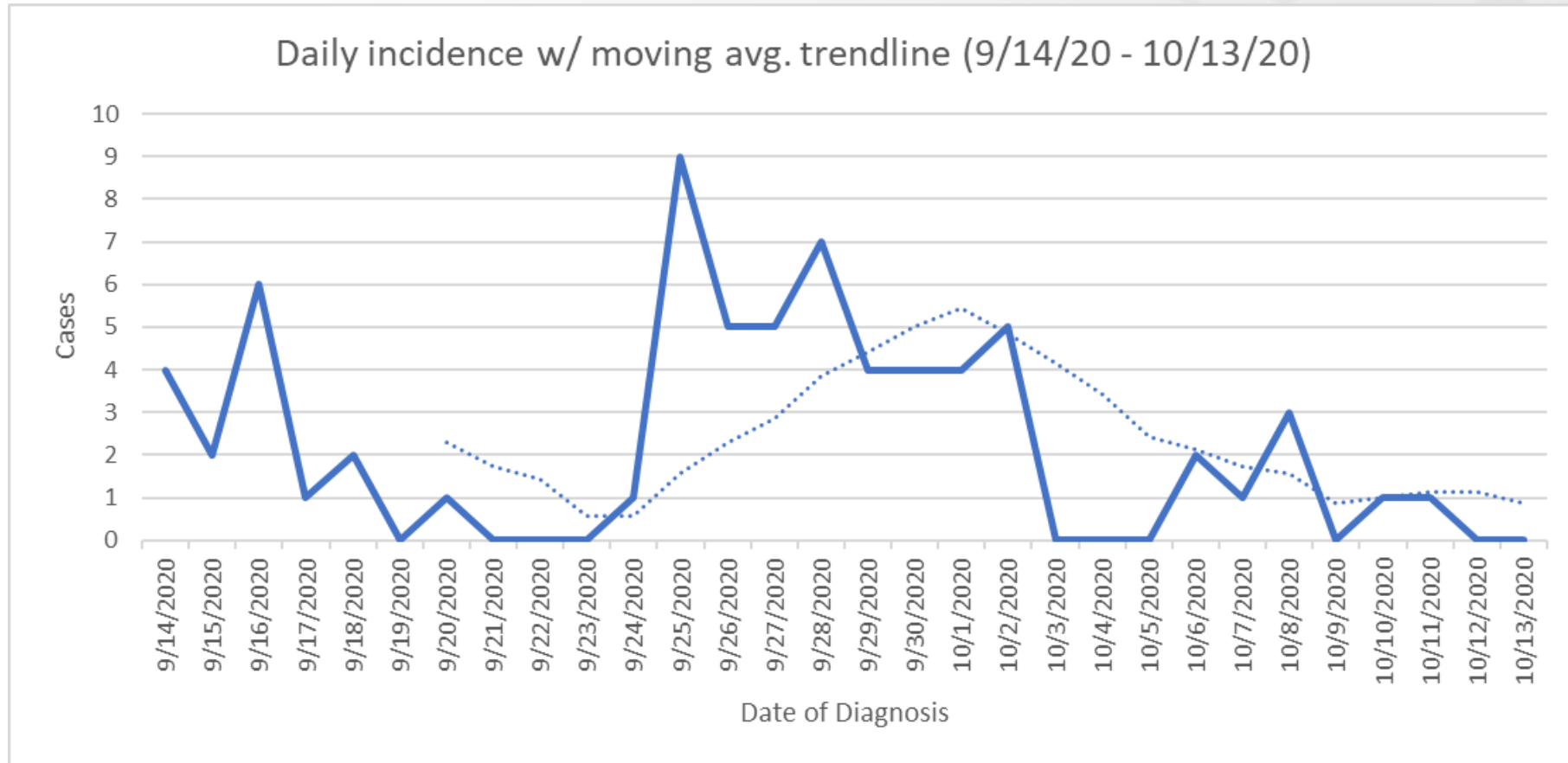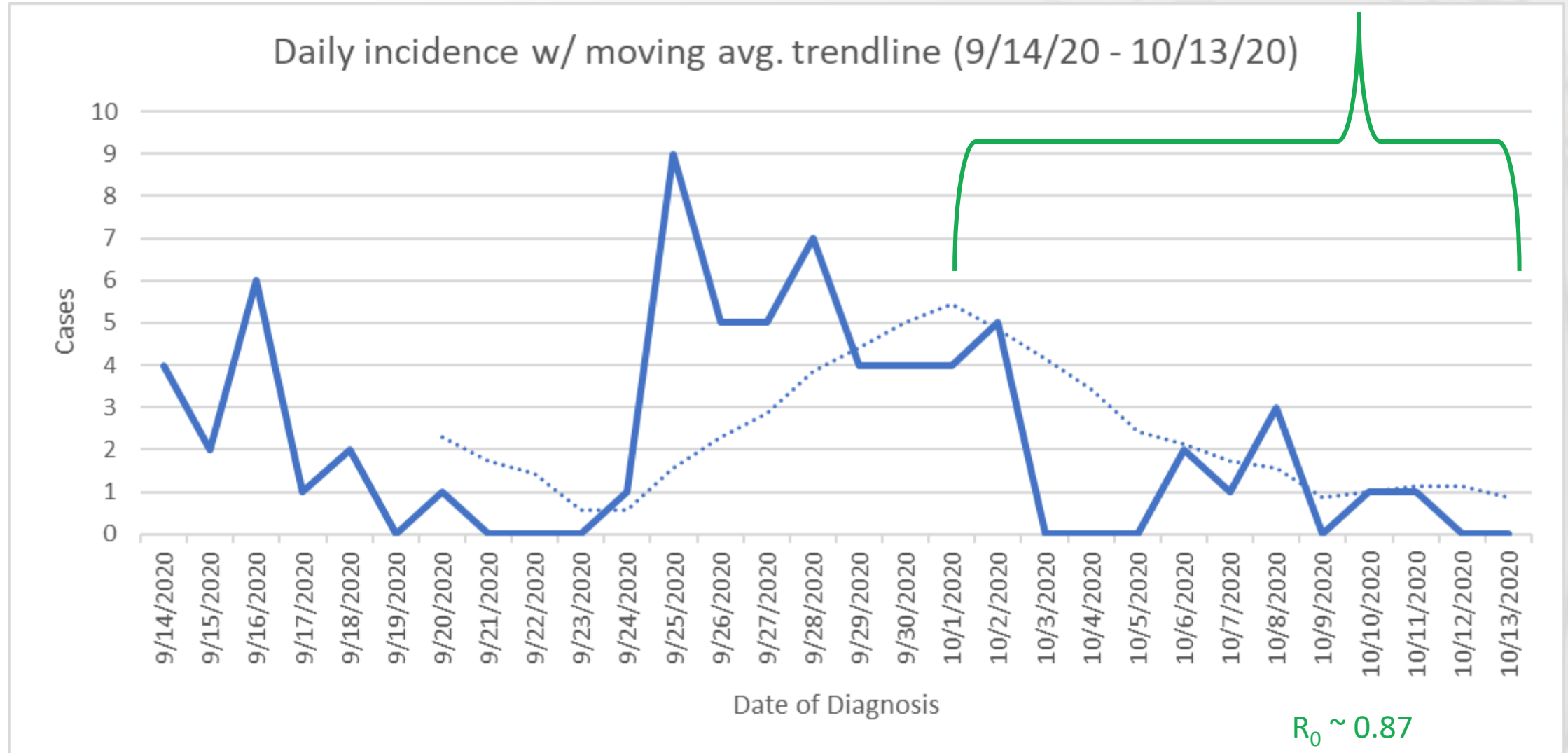
Enforcement:

- Implemented Emergency BOH order #13 on 10/7 at 12pm
  - 9 Citations issued
  - 2 written warnings
  - 1 verbal warning
  - Total of $6,500 in fines issued, so far

Next Steps:

- Abide by Emergency BOH order #13

- It takes the whole community. Do your part to help us get out of the "Red Zone"
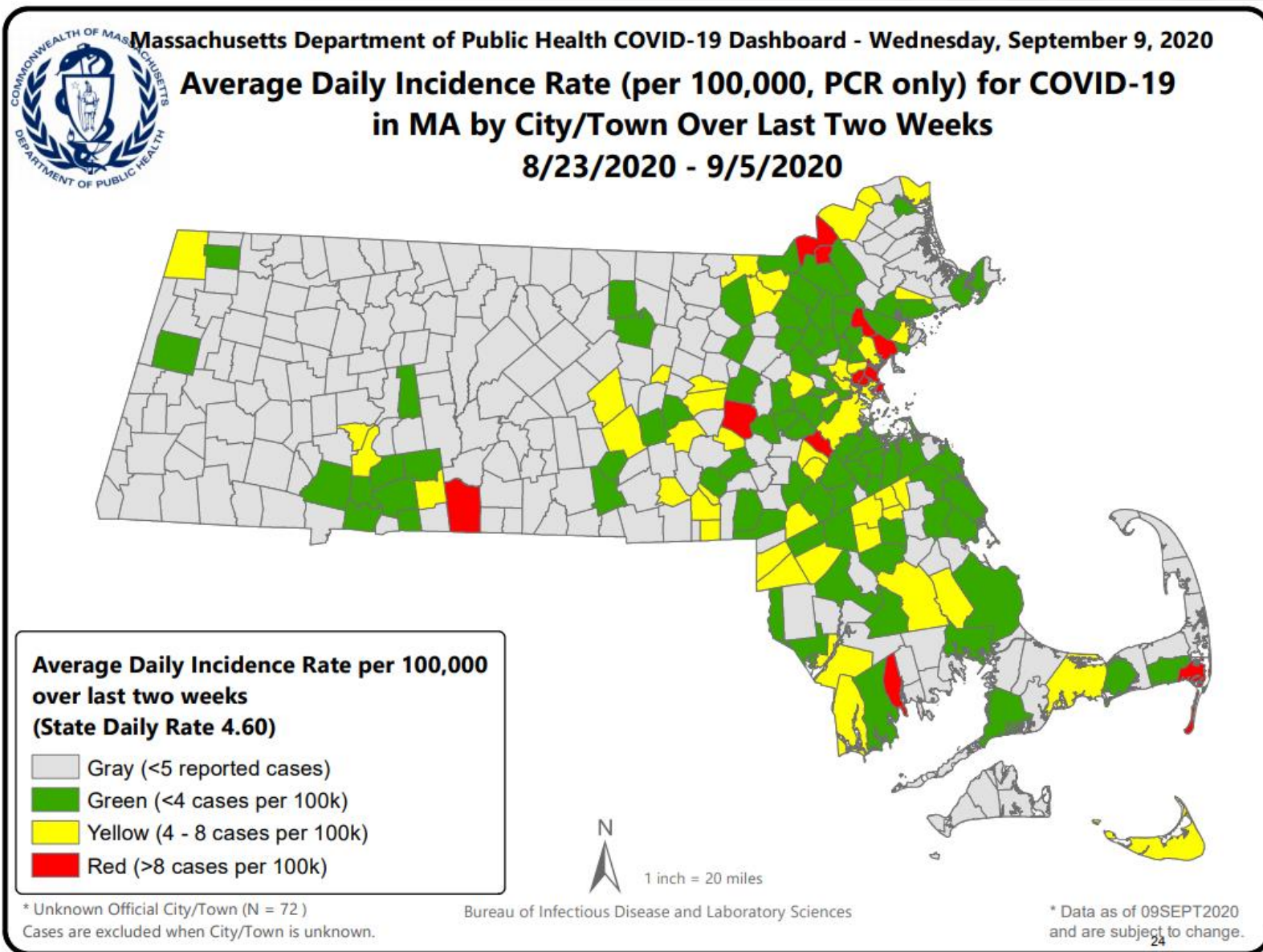
State Maps

State Maps

Massachusetts Department of Public Health COVID-19 Dashboard - Wednesday, September 16, 2020

Average Daily Incidence Rate (per 100,000, PCR only) for COVID-19 in MA by City/Town Over Last Two Weeks
8/30/2020 - 9/12/2020

Average Daily Incidence Rate per 100,000 over last two weeks
(State Daily Rate 4.60)

Gray (<5 reported cases)
Green (<4 cases per 100k)
Yellow (4 - 8 cases per 100k)
Red (>8 cases per 100k)

1 inch = 20 miles

* Unknown Official City/Town (N = 32)
Cases are excluded when City/Town is unknown.

Bureau of Infectious Disease and Laboratory Sciences

* Data as of 16SEPT2020 and are subject to change.

State Maps

Massachusetts Department of Public Health COVID-19 Dashboard - Wednesday, September 23, 2020

Average Daily Incidence Rate (per 100,000, PCR only) for COVID-19 in MA by City/Town Over Last Two Weeks
9/6/2020 - 9/19/2020

Average Daily Incidence Rate per 100,000 over last two weeks
(State Daily Rate = 4.9)

- Gray (<5 reported cases)
- Green (<4 cases per 100k)
- Yellow (4 - 8 cases per 100k)
- Red (>8 cases per 100k)

N

1 inch = 20 miles

* Unknown Official City/Town (N = 24)
Cases are excluded when City/Town is unknown.

Bureau of Infectious Disease and Laboratory Sciences

* Data as of 23SEPT2020
and are subject to change.

State Maps

Massachusetts Department of Public Health COVID-19 Dashboard - Wednesday, September 30, 2020

Average Daily Incidence Rate (per 100,000, PCR only) for COVID-19 in MA by City/Town Over Last Two Weeks
9/13/2020 - 9/26/2020

Average Daily Incidence Rate per 100,000 over last two weeks
(State Daily Rate = 5.7)

Gray (<5 reported cases)
Green (<4 cases per 100k)
Yellow (4 - 8 cases per 100k)
Red (>8 cases per 100k)

1 inch = 20 miles

* Unknown Official City/Town (N = 22)
Cases are excluded when City/Town is unknown.

Bureau of Infectious Disease and Laboratory Sciences

* Data as of 30SEPT2020 and are subject to change.

State Maps

Massachusetts Department of Public Health COVID-19 Dashboard - Wednesday, October 7, 2020

Average Daily Incidence Rate (per 100,000, PCR only) for COVID-19 in MA by City/Town Over Last Two Weeks
9/20/2020 - 10/3/2020

Average Daily Incidence Rate per 100,000 over last two weeks
(State Daily Rate = 7.3)

- Gray (<5 reported cases)
- Green (<4 cases per 100k)
- Yellow (4 - 8 cases per 100k)
- Red (>8 cases per 100k)

N

1 inch = 20 miles

* Unknown Official City/Town (N = 27)
Cases are excluded when City/Town is unknown.

Bureau of Infectious Disease and Laboratory Sciences

* Data as of 7OCT2020
and are subject to change.